EVENT LIGHTING

WASH MOVING HEAD

M7W15RGBW

USER MANUAL

For safety, please read this user manual carefully before initial use.

Event Lighting reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Event Lighting assumes no liability or responsibility for any errors or omissions. Please consult Event Lighting for any clarification or information regarding this item.

www.event-lighting.com.au

V1.1

Safety Instructions

WARNING

• Do not open this device, there is no user-serviceable parts inside. Risk of electric shock.

• Do not look at the light source when the device is on.

• **CAUTION**: This unit's housing may be hot during and after operation.

• Install this device in a location with adequate ventilation, at least 20 inch (50 cm) from adjacent surfaces.

• Do not leave any flammable material within 50 cm of this unit while operating or connected to power.

• Use a safety chain when mounting this device overhead.

• Do not operate this device outdoors or in any location where dust, excessive heat, water, or humidity may affect it.

• Do not operate this device if the housing, lenses, or cables appear damaged.

• Do not connect this device to a dimmer or rheostat.

• ONLY connect this device to a grounded and protected circuit.

• ONLY use the hanging bracket to carry this device.

• In case of a serious operating problem, stop using immediately.

• The maximum ambient temperature is 104° F (40° C). Do not operate this device at higher temperatures.

Power Input & Power Linking

This device has an auto-switching power supply work with input voltage range of 100~240 VAC, 50/60 Hz.

Link up to the maximum 8A. DO NOT exceed this.

Fuse Replacement

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating.

Before replacing the fuse, unplug mains lead.

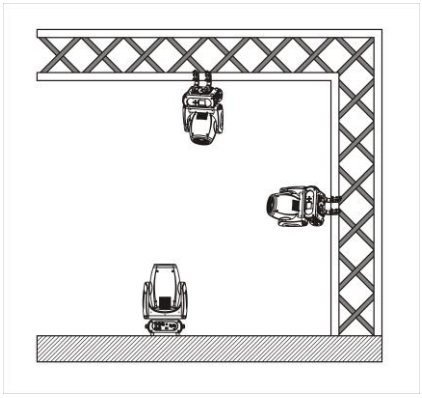
Procedure:

Step 1: Unscrew the fuse holder on the rear panel with a fitting screwdriver from the housing (anticlockwise).

Step 2: Remove the old fuse from the fuse holder.

Step 3: Install the new fuse in the fuse holder.

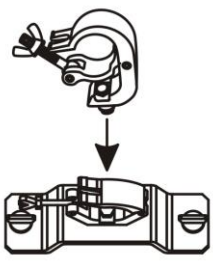
Step 4: Replace the fuse holder in the housing and fix it.

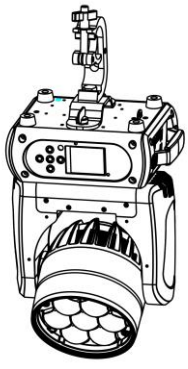


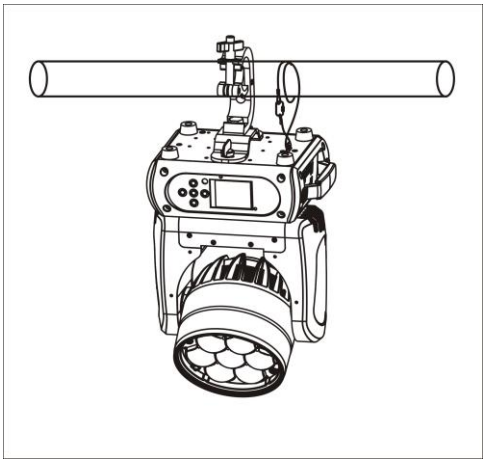
Product Installation

This device can be mounted in many orientations provided each individual device is secured by the use of correct mounting bracket.

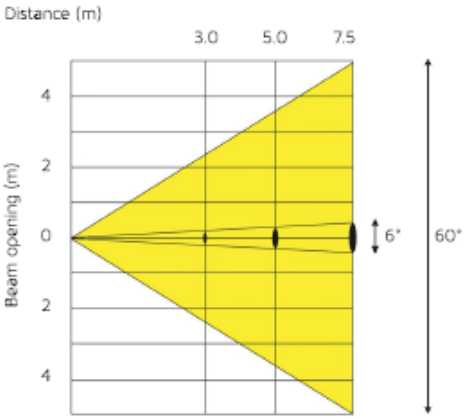
Use a safety chain when mounting this device overhead.







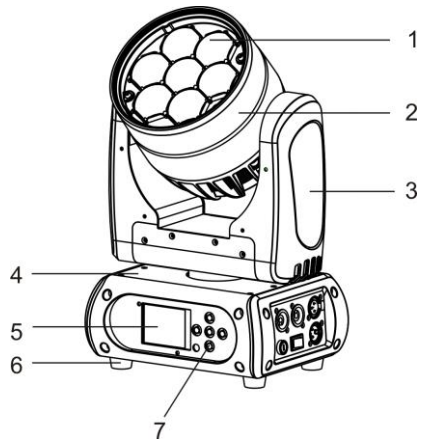
Product Appearance, LUX chart, Dimensions

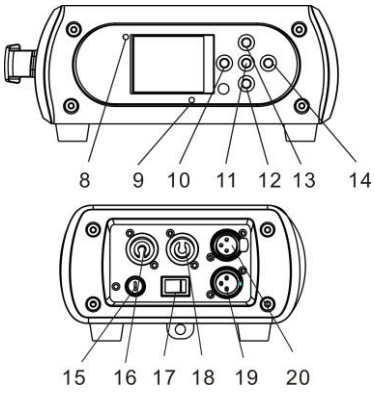


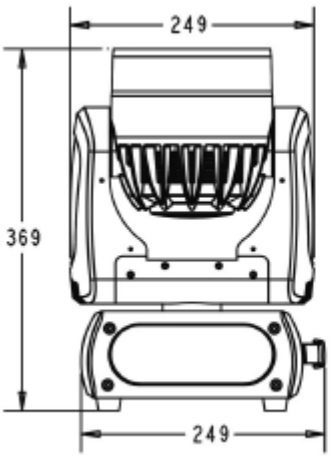
Diameter (m)		Ø0.44	Ø0.65	Ø0.91
LUX Intensity	R	1624	552	258
	G	4032	1358	628
	B	560	195	105
	W	4660	1638	766
	Full	9700	3263	1494

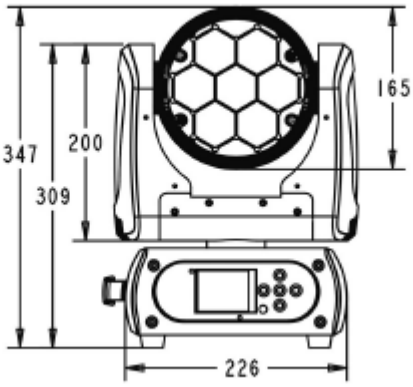
Diameter (m)		Ø3.95	Ø6.50	Ø9.68
LUX Intensity	R	130	53	39
	G	307	124	68
	B	43	18	24
	W	352	146	79
	Full	745	302	141

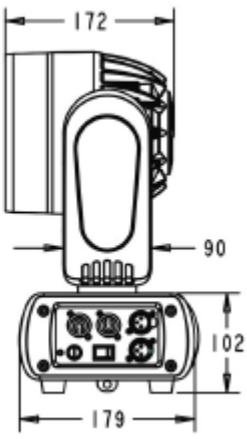
1. Project lens
2. Head
3. Arm
4. Base
5. Display
6. Foot stand
7. Operation button
8. Wireless indicator
9. Mic
10. Left Button
11. Enter Button
12. Down Button
13. Up Button
14. Right Button
15. Fuse Holder
16. Powercon in
17. Power switch
18. Powercon out
19. 3-pin DMX out
20. 3-pin DMX in











Menu Operation

Description of icons in the menu

CONNECT	LIGHT	INFOMATION	SET	PROGRAM

Menu

Default setting shadowed. mark with ①can be basic reloaded, ② be program reloaded, ③can be private reloaded.

Connect	DMX Address①	XXX		DMX address setting
Light	Max Temperature ①	80~139℃, 90℃ /176~282℉, 194℉		Lamp switch off when temperature continuously over for 5 minutes
	Lamp Adjust①			Adjust value of each channels
Information	Time Info.	Current XXXX(Hours) Fixture Life XXXX(Hours)		Fixture boot time Fixture total run time
	Temperature	Near Lamp Temp (depends on fixture)		Temperature Sensors
	Fans Speed	Near Lamp Fan (depends on fixture)		Fan speed Sensors
	Channel Value			Display value of channel
	Error Message			Error channels
	Fixture Model	M7W15RGBW		Display brand and model
	Software Ver	1U01 V1.0.00 2U01 V1.0.00		Version of each IC
Set	Reset	All Pan & Tilt Others		Reset all Reset Pan & Tilt Reset Others
	Movement	Pan Reverse① Tilt Reverse① Pan Degree① Encoders① Pan/Tilt Mode①	ON/OFF ON/OFF 630°/540° ON/OFF Stand/Smooth	Pan Reverse Tilt Reverse Choose Pan Degree Encoder wheel on/off Choose pan/tilt mode
	UI Set	Mic Sens. ③ No Signal① Temperature. C/F① Fans Mode① Hibernation① Backlight① Flip Display① Display Bright③ Brand Show①	0~99%,60% Close/Hold/Auto/Music Fahrenheit /Celsius Auto Speed /High Speed OFF, 01M~99M , 15M 02~60m 02m ON/OFF 00~31 10 ON/OFF	Sensitivity of Mic Mode when no signal Temperature at ℃/℉ Fans mode Sleeping mode Show backlight time Display 180°reverse Display Brightness Show brand or not

		Key Lock① Language①	ON/OFF En/简/繁/Fr/Sp	Key lock on/off Language Select
	Users	User Mode①	Standard Extended Basic-8bit Basic-16bit User	Standard mode Extended mode Basic-8bit mode Basic-16bit mode User program mode
		Edit User③	Max Channel = XX PAN = CH01 :	Edit users mode
	Calibration③	-Password- Pan…	=XXX =XXX	Password: 050 Calibrate channel value
	Fixture ID③	Name -Password- PID Code		Name Password: 050 Set PID of RDM
	Reload Default	Basic Reload(①) Program Reload(②) ---Password--- Private Reload(③) All Reload	ON/OFF ON/OFF XXX ON/OFF ON/OFF	Basic Reload Program Reload Password: 050 Private Reload All Reload
Program	Play①	DMX Receive Slave Receive Sequence Music	 Slave Receive 1,2,3 Master / Alone Master / Alone	DMX Receive Choose slave position Run Sequence Music mode
	Select Chase②	Chase Part 1 Chase Part 2 Chase Part 3	Chase 1 ~ 8 Chase 1 Chase 1 ~ 8 Chase 2 Chase 1 ~ 8 Chase 3	Select and run auto program
	Edit Chase②	Chase 1 : Chase 8	Chase Test Step 01 =SCxxx Step 64 =SCxxx	Test Beginning scene Ending scene
	Edit Scenes②	Edit Scene 001 ~ Edit Scene 250	Pan,Tilt,…… Fade Time-- Secne Time-- DMX Input	=xxx =xxx =xxx	Input manual scene Modify fading time Modify scene time Input scene from exterior controller
	Scenes Record	ScXX=>ScXX		Auto Input scenes

DMX chart

Channel				name	function	Min DMX	Max DMX
St	Ex	Ba1	Ba2				
1	1	1	1	Pan	Pan Coarse	0	255
	2		2	Pan fine	Pan Fine	0	255
2	3	2	3	Tilt	Tilt Coarse	0	255
	4		4	Tilt fine	Tilt Fine	0	255
3	5	3	5	Movement Speed	fastest to Slowest	0	255
	6			movement Function	Normal	0	15
					Movement With Blackout	16	31
					TBD	32	255
4	7			Shutter Function	Normal Shutter mode	0	15
					Pulse-effect Forward	16	31
					Pulse-effect Reverse	32	47
					Random Strobe	48	63
					TBD	64	255
5	8			Shutter	Normal Shutter mode with shutter close	0	31
					Normal Shutter mode speed slow to fast	32	223
					Normal Shutter mode with shutter Open	224	255
					Pulse-effect Forward shutter Close	0	31
					Pulse-effect Forward Strobe speed slow to fast	32	223
					Pulse-effect Forward shutter Open	224	255
					Pulse-effect Reverse shutter Close	0	31
					Pulse-effect Reverse Strobe Rate slow to fast	32	223
					Pulse-effect Reverse shutter Open	224	255
					Random Strobe , shutter Close	0	31
					Random Strobe Strobe speed slow to fast	32	223
					Random Strobe , shutter Open	224	255
		4	6	Shutter	Shutter closed	0	31
					No function (shutter open)	32	63
					Strobe effect slow to fast	64	95
					No function (shutter open)	96	127
					Pulse-effect in sequences	128	159
					No function (shutter open)	160	191
					Random strobe effect slow to fast	192	223
					No function (shutter open)	224	255
6	9	5	7	Dimmer	Dimmer (0->100%)	0	255
7	10	6	8	Virtual Color Function	On Function	0	15
					CTC Function	16	31
					Forward Spin	32	47
					Reverse Spin	48	63
					Continuous	64	79

					Color Bounce	80	111
					TBD	112	255
8	11	7	9	Virtual Color1	CTC Function		
					Colour Temperature Correction 2000K->2700K	0	223
					White 3200K	224	231
					White 4200K	232	239
					White 5600K	240	247
					White 8000K	248	255
					Forward Spin		
					Rainbow Effect (Slow->Fast)	0	255
					Reverse Spin		
					Rainbow Effect (Slow->Fast)	0	255
					Continuous & Color Bounce		
					Black	0	0
					Red	1	1
					Green	2	2
					Blue	3	3
					White	4	4
					Red=0, Green->up,Blue=full,White=0	5	46
					Red=0, Green=full,Blue->down,White=0	47	88
					Red->up, Green=full,Blue=0,White=0	89	130
					Red=full, Green->down,Blue=0,White=0	131	172
					Red=full, Green=0,Blue->up,White=0	173	214
					Red->down, Green=0,Blue=full,White=0	215	255
9	12	8	10	Virtual Color2 (Only On Color Bounce)	Black	0	0
					Red	1	1
					Green	2	2
					Blue	3	3
					White	4	4
					Red=0, Green->up,Blue=full,White=0	5	46
					Red=0, Green=full,Blue->down,White=0	47	88
					Red->up, Green=full,Blue=0,White=0	89	130
					Red=full, Green->down,Blue=0,White=0	131	172
					Red=full, Green=0,Blue->up,White=0	173	214
					Red->down, Green=0,Blue=full,White=0	215	255
10	13	9	11	Red-All	Red 0->100%	0	255
11	14	10	12	Green-All	Green 0->100%	0	255
12	15	11	13	Blue-All	Blue 0->100%	0	255
13	16	12	14	White-All	White 0->100%	0	255
14	17	13	15	Zoom	small angle -> Big angle	0	255
15	18	14	16	Foreground	No Function	0	15
					Foreground Color	16	255
16	19	15	17	Background	No Function	0	15
					Background color	16	255
17	20	16	18	Pattern	On Pattern	0	15

					Pattern control	16	31
					Pattern Effect 1~14	32	255
18	21	17	19	Pattern Speed	Pattern control		
					Picture Effect 1-250	3	252
					Pattern Effect		
					Slow-> Fast	0	255
				Pattern Byte 1	Direct access to Pattern of LED 1&LED 2	0	255
				Bit 0	Bit0=Led1 Red Switch	0	1
				Bit 1	Bit1=Led1 Green Switch	0	2
				Bit 2	Bit2=Led1 Blue Switch	0	4
				Bit 3	Bit3=Led1 White Switch	0	8
				Bit 4	Bit4=Led2 Red Switch	0	16
				Bit 5	Bit5=Led2 Green Switch	0	32
				Bit 6	Bit6=Led2 Blue Switch	0	64
				Bit 7	Bit7=Led2 White Switch	0	128
				Pattern Byte 2	Direct access to Pattern of LED 3&LED 4	0	255
				Pattern Byte 3	Direct access to Pattern of LED 5&LED 6	0	255
				Pattern Byte 4	Direct access to Pattern of LED 7	0	255
	22			Red Pixel 1	Led Off	0	127
					Led On	128	255
	23			Green Pixel 1	Led Off	0	127
					Led On	128	255
	24			Blue Pixel 1	Led Off	0	127
					Led On	128	255
	25			White Pixel 1	Led Off	0	127
					Led On	128	255
	:			:			
	46			Red Pixel 7	Led Off	0	127
					Led On	128	255
	47			Green Pixel 7	Led Off	0	127
					Led On	128	255
	48			Blue Pixel 7	Led Off	0	127
					Led On	128	255
	49			White Pixel 7	Led Off	0	127
					Led On	128	255
19	50	18	20	Control	Normal	0	7
					Reset All	8	15
					Pan&Tilt Reset	16	23
					TBD	24	47
					Other Reset	48	55

					Display Off	56	63
					Display On	64	71
					TBD	72	79
					TBD	80	87
					Hibernation	88	95
					TBD	96	255

- The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, this device has four channel modes: 19/50/18/20, if we set the mode at standard 20 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 21, third one at 41, etc.
-
- If the devices have the same address, they will behave synchronically.
-
- Display is flashing when no DMX signal is received.

More functions

- RDM. RDM stands for “Remote Device Management”, with this function, users can realize remote control of the device, such as remotely changing DMX address, reverse pan/tilt setting, check a lot of useful information such as temperature, power consumption, fan speed. Etc. Every single device has a unique RDM code programmed at manufacture to distinguish from each other. It is not recommended for users to change this code.
-
- Software upgrade function via DMX cable. If there is any new firmware for this device, it can be upgraded simply via a software upgrade box, no need to change any mechanical parts. The upgrade box is not included in the package, if need any further assistance please just contact your authorized dealer.
-
- Hibernation. The device will enter sleeping mode if activated after a period of disconnecting DMX signal to save the power consumption, and will return immediately as soon as the DMX signal is sent again.
-
- Display back-up communication IC. There is a back-up communication IC installed in the display PCB, so users could replace at once if the original one is broken.
-
- Display flip. By press up and down button for more than 3 seconds, the display will flip automatically, this function is useful to read menu conveniently when device is hanged.

Technical Specifications

- Input Voltages: 100V~240V A, 50/60Hz
- Power Consumption: 125W
- Light source: 7 pcs Osram 15W RGBW LED
- Power Connection: Neutrik® Powercon input and output connection
- LED life: 60,000 hours
- Lux: 3,500 lumen, 9,700 lux RGBW full on @3M at 6°
- Beam angle: 6°to 60°
- PWM: 1,200Hz
- Colors: full color
- Pixel control
- Dimmer: 0-100% dimmer
- Strobe: 0.5 - 26 Hz
- Zoom: 6°to 60°
- Head movement: Pan: 630°(1.45 sec)or 540°(1.2 sec), Tile 265°(0.72 sec).16-bit resolution, auto repositioning
- Control: DMX512, 3-pin XLR interfaces, 19/50/18/20 channel mode
- Other function: wireless DMX is available
- 2.4 inch colour LCD display with back-up power.
- Thermostat Controlled, variable speed fan
- RDM and software upgrade via DMX.
- Net weight: 6Kg
- Overall Size: 249x179x369mm
- Rigging: 1pc omega brackets with 1/4 – turn quick locks
- Road case available